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Terms: patno=6124597 (Edit Search)

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#### 889017 (08) 6124597 September 26, 2000

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT **6124597**

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#### Link to Claims Section

#### September 26, 2000

Method and devices for laser induced fluorescence attenuation spectroscopy **REISSUE:** January 23, 2002 - Reissue Application filed Ex. Gp.: 2878; Re. S.N. 10/056,335 (O.G. June 18, 2002)

**INVENTOR:** Shehada, Ramez E. N., Los Angeles, CA; Marmarelis, Vasilis Z., Irvine, CA; Grundfest, Warren S., Los Angeles, CA

**APPL-NO:** 889017 (08)

FILED-DATE: July 7, 1997

**GRANTED-DATE:** September 26, 2000

ASSIGNEE-AT-ISSUE: Cedars-Sinai Medical Center, Los Angeles, CA

**ASSIGNEE-AFTER-ISSUE:** March 16, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., CEDARS-SINAI MEDICAL CENTER 8700 BEVERLY BOULEVARD LOS ANGELES CALIFORNIA 900 48, Reel and Frame Number: 009072/0442

LEGAL-REP: Pretty, Schroeder & Poplawski

**PUB-TYPE:** September 26, 2000 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**US-MAIN-CL:** 250#461.2

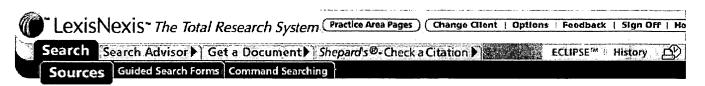
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CL: 250, 356, 600

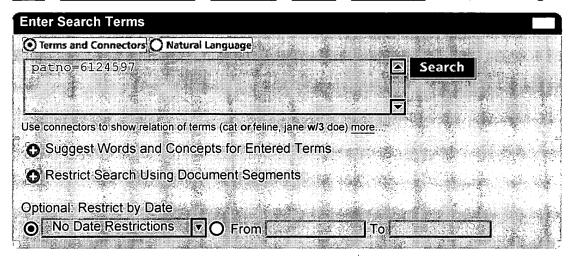
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IPC-MAIN-CL: G 01N021#64

PRIM-EXMR: Hannaher, Constantine



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1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US6124597 A 20000926 [US6124597]

TI - (A) Method and devices for laser induced fluorescence attenuation spectroscopy

PA - (A) CEDARS SINAI MEDICAL CENTER (US)

PAO - Cedars-Sinai Medical Center, Los Angeles CA [US]

IN - (A) SHEHADA RAMEZ E N (US); MARMARELIS VASILIS Z (US); GRUNDFEST
WARREN S (US)

AP - US88901797 19970707 [1997US-0889017]

PR - US88901797 19970707 [1997US-0889017]

IC - (A) G01N-021/64

EC - A61B-005/00P4

- G01N-021/64A

PCL - ORIGINAL (O): 250461200; CROSS-REFERENCE (X): 250458100 356342000 600320000 600321000 600323000

DT - Corresponding document

CT - US4641650; US4675529; US4707131; US4753530; US4786813; US4945245; US4957114; US5122974; US5341805; US5452723; US5456252; US5495850; US5507287; US5635402; US5760406; EP0703445 A2; WO8912223; WO9708538

STG - (A) United States patent

AB - The Laser Induced Fluorescence Attenuation Spectroscopy (LIFAS) method and apparatus preferably include a source adapted to emit radiation that is directed at a sample volume in a sample to produce return light from the sample, such return light including modulated return light resulting from modulation by the sample, a first sensor, displaced by a first distance from the sample volume for monitoring the return light and generating a first signal indicative of the intensity of return light, a second sensor, displaced by a second distance from the sample volume, for monitoring the return light and generating a second signal indicative of the intensity of return light, and a processor associated with the first sensor and the second sensor and adapted to process the first and second signals so as to determine the modulation of the sample. The methods and devices of the inventions are particularly well-suited for determining the wavelength-dependent attenuation of a sample and using the attenuation to restore the intrinsic laser induced fluorescence of the sample. In turn, the attenuation and intrinsic laser induced fluorescence can be used to determined a characteristic of interest, such as the ischemic or hypoxic condition of biological tissue.

UP - 2000-39

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1/1 LGST - (C) LEGSTAT
 PN - US 6124597 [US6124597]
 AP - US 889017/97 19970707 [1997US-0889017]
 DT - US-P
 ACT - 19970707 US/AE-A
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       {US 889017/97 19970707 [1997US-0889017]}
      - 20000926 US/A
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      - 20020618 US/RF
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        20020123
 UP - 2002-26
 1/1 PAST - (C) Thomson Derwent
 AN - 200225-001716
 PN - 6124597 A [US6124597]
 DT - A (UTILITY)
 OG - 2002-06-18
 CO - REA
 ACT - REISSUE APPLICATION FILED
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 Search statement
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 IN - SHEHADA RAMEZ E; MARMARELIS VASILIS Z; GRUNDFEST WARREN S
 PA - CEDARS SINAI MEDICAL CENTER
 AP - AU 78306/98-A 19980609 [1998AU-0078306]
PR - US 889017/97-A 19970707 [1997US-0889017]
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- WO 9811937/98(US)-W 19980609 [1998WO-US11937]
IC - G01N-021/49; A61B-005/00
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    - WO 9811937/98(US)-W 19980609 [1998WO-US11937]
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LA
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ΤN
   - SHEHADA RAMEZ E [US]; MARMARELIS VASILIS Z [US]; GRUNDFEST WARREN S
     [US]
PA
   - CEDARS SINAI MEDICAL CENTER [US]
AP - EP 98926475/98-A 19980609 [1998EP-0926475]
PR - WO 9811937/98(US)-W 19980609 [1998WO-US11937]
   - US 889017/97-A 19970707 [1997US-0889017]
IC - G01N-001/00
DS - CH* DE* FR* GB* LI*
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PN - EP 995095 [EP-995095]
AP - EP 98926475/98 19980609 [1998EP-0926475]
DT - EP-P
ACTE- 19980609 EP/AE-A
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   - 20000426 EP/AK-A2 [+]
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     PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT
   - 20000426 EP/17P [+]
     REQUEST FOR EXAMINATION FILED
     19991215
   - 20000503 EP/RIN1
     INVENTOR (CORRECTION)
     SHEHADA, RAMEZ, E. * MARMARELIS, VASILIS, Z. * GRUNDFEST, WARREN, S.
   - 20010228 EP/17Q [+]
     FIRST EXAMINATION REPORT
     20010116
UP - 2001-09
4/7 INPADOC - (C) INPADOC
PN - JP 2001509589 T2 20010724 [JP2001509589]
   - JP 2000502389/00-A 19980609 [2000JP-0502389]
   - US 889017/97-A 19970707 [1997US-0889017]
    - WO 9811937/98(US)-W 19980609 [1998WO-US11937]
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US 6,124,597 10/056335 IC - G01N-021/27; A61B-005/145; A61B-010/00; G01N-021/64 5/7 INPADOC - (C) INPADOC PN - US 6124597 A 20000926 [US6124597] - METHOD AND DEVICES FOR LASER INDUCED FLUORESCENCE ATTENUATION SPECTROSCOPY - SHEHADA RAMEZ E N [US]; MARMARELIS VASILIS Z [US]; GRUNDFEST WARREN S TN [US] PΑ - CEDARS SINAI MEDICAL CENTER [US] AP - US 889017/97-A 19970707 [1997US-0889017] PR - US 889017/97-A 19970707 [1997US-0889017] IC - G01N-021/64 1/1 LEGALI - (C) LEGSTAT PN - US 6124597 [US6124597] AP - US 889017/97 19970707 [1997US-0889017] DT - US-P ACTE- 19970707 US/AE-A APPLICATION DATA (PATENT) {US 889017/97 19970707 [1997US-0889017]} - 20000926 US/A PATENT - 20020618 US/RF REISSUE APPLICATION FILED 20020123 UP - 2002-26 6/7 INPADOC - (C) INPADOC PN - WO 9902956 A2 19990121 [WO9902956] TI - METHOD AND DEVICES FOR LASER INDUCED FLUORESCENCE ATTENUATION SPECTROSCOPY (LIFAS) LA - ENG IN - SHEHADA RAMEZ E; MARMARELIS VASILIS Z; GRUNDFEST WARREN S PA - CEDARS SINAI MEDICAL CENTER [US] AP - WO 9811937/98(US)-A 19980609 [1998WO-US11937] PR - US 889017/97-A 19970707 [1997US-0889017] IC - G01N-000/00 DS - AU\* JP\* AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE 1/1 LEGALI - (C) LEGSTAT PN - WO 9902956 [WO9902956] AP - WO 9811937/98(US) 19980609 [1998WO-US11937] DT - WO-P ACTE- 19980609 WO/AE-A APPLICATION DATA {WO 9811937/98(US) 19980609 [1998WO-US11937]} - 19990121 WO/AK-A2 [+] DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITHOUT SEARCH REPORT AU JP - 19990121 WO/AL-A2 [+] DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED

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APPLICATION WITHOUT SEARCH REPORT

- 19990121 WO/A2 [+]

PUBLICATION OF THE INTERNATIONAL APPLICATION WITHOUT THE INTERNATIONAL SEARCH REPORT

- 19990325 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

- 19990429 WO/AK-A3 [+]

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- 19990429 WO/A3 [+]

SUBSEQUENT PUBLICATION OF THE INTERNATIONAL SEARCH REPORT

- 19990506 WO/121

EP: PCT APP. ART. 158 (1)

UP - 1999-20

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PN - WO 9902956 A3 19990429 [WO9902956]

TI - METHOD AND DEVICES FOR LASER INDUCED FLUORESCENCE ATTENUATION SPECTROSCOPY (LIFAS)

LA - ENG

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IC - G01N-021/49; A61B-005/00

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- WO 9811937/98(US) 19980609 [1998WO-US11937] AΡ

DT - WO-P

ACTE- 19980609 WO/AE-A

APPLICATION DATA

{WO 9811937/98(US) 19980609 [1998WO-US11937]}

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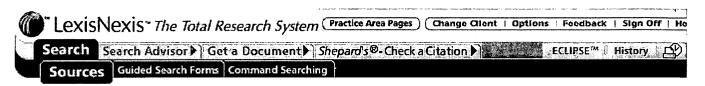
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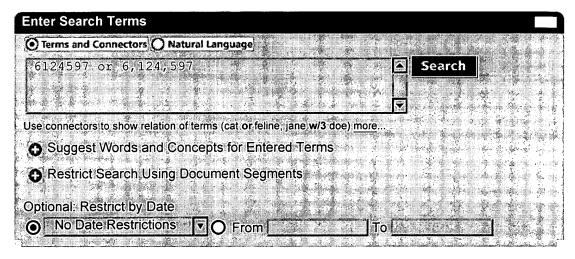
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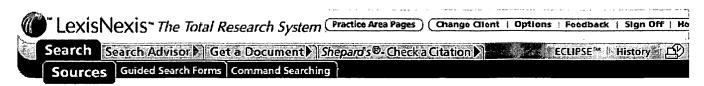


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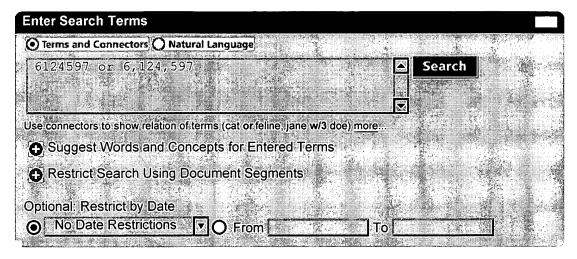
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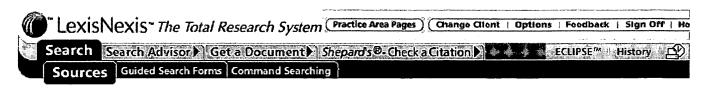
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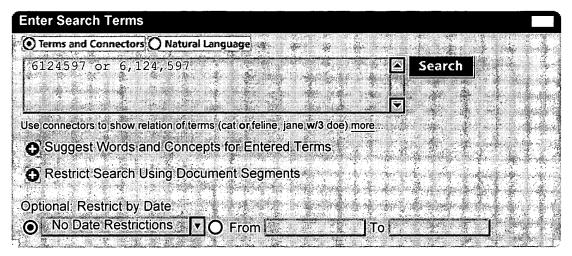
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